

TEMPERATURE CONTROLLER FOR REFRIGERATING MACHINE

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Abstract of JP9287842

PROBLEM TO BE SOLVED: To provide a temperature controller for refrigerating machine, which is capable of effecting stabilized temperature control and conforming to various temperature sensors while provided with the simple constitution of a hardware.

SOLUTION: A temperature control unit 25 applies PI processing on a difference ΔT between a measuring temperature signal T_c and an objective temperature T_R and outputs a temperature control voltage V_0 in accordance with the difference ΔT . A second operation unit 27 applies PI operation on the temperature control voltage V_0 and outputs a motor control voltage V_1 in accordance with the temperature control voltage V_0 . Thus, stabilized temperature control is effected by applying PI processing on the difference ΔT two times. On the other hand, practically effective driving voltage can be obtained directly through the PI processing of two times whereby an amplifier, consisting of a discrete circuit, can be eliminated and the constitution of a hardware can be simplified. Further, the fluctuation of level of the measuring temperature signal T_c due to the change of kind of the temperature sensor 22, which can not be absorbed by the PI processing of the first time, can be absorbed by the PI processing of the second time whereby the controller can conform to various temperature sensors.

